

STATEMENT OF BASIS

Alabama Power Company
Gadsden Steam Electric Generating Plant
Etowah County
307-0002

This proposed renewal to the Title V Major Source Operating Permit (MSOP) is issued under the provisions of ADEM Admin. Code r. 335-3-16. The above-referenced applicant has applied to renew the existing Title V Permit, which was originally issued on July 7, 2003. The applicant has requested authorization to perform the work or operate the facility shown on the application and drawings, plans and other documents, which were submitted on December 21, 2007 and July 24, 2008. On October 1, 2013, the Department requested an updated renewal application. The updated application was received on April 1, 2014. Alabama Power Company (APC) updated its application once again and submitted it to the Department on July 24, 2015. This application reflects that Units 1 and 2 are no longer burning coal. All information is attached hereto or on file with the Air Division of the Alabama Department of Environmental Management, in accordance with the terms and conditions of this permit.

The significant sources of air pollutants at this facility are: two tangentially-fired power boilers (Nos. 1 and 2) that burn natural gas; an auxiliary steam boiler (No. 3) that fires natural gas; and six stationary internal combustion engines. The two natural gas-fired boilers power two generators, each rated at 70 Megawatts, and are also capable of supplying steam to an adjacent steam customer. Emissions from Units 1 and 2 exhaust through a common stack. The auxiliary steam boiler does not power a generator and is fired only when necessary to supply steam to the adjacent steam customer. The auxiliary steam boiler exhaust through its own independent stack.

The permittee has quantified its facility-wide greenhouse gas emissions in the renewal application. There are no greenhouse gas requirements applicable to this facility other than those found in the Greenhouse Gas Reporting Rule, which is implemented by the USEPA.

Units 1 and 2 have nominal heat inputs of 797.5 mmBtu/hr and 853.2 mmBtu/hr, respectively. Units 1 and 2 are subject to the state regulations, as well as the Acid Rain Program and the Cross State Air Pollution Rule (CSAPR). On April 16, 2012, the Mercury and Air Toxics Standards (MATS) Rule became effective. The compliance date for this rule was April 16, 2015. These units are fired with natural gas only and are, therefore, not subject to the MATS Rule. These units will remain unaffected sources under the MATS Rule as long as they meet the following definitions of natural gas-fired electric utility steam generating units:

40 CFR 63.9983(c) – Any electric utility steam generating unit that has the capability of combusting more than 25 MW of coal or oil but does not meet the definition of a coal- or oil-fired EGU because it did not fire sufficient coal or oil to satisfy the average annual heat input requirement set forth in the definitions for coal-fired and oil-fired EGUs in 63.10042. Heat input means heat derived from combustion of fuel in an EGU and does not include the heat derived from

preheated combustion air, recirculated flue gases or exhaust gases from other sources (such as stationary gas turbines, internal combustion engines, and industrial boilers).

40 CFR 63.10042 – *Natural gas-fired electric utility steam generating unit* means an electric utility steam generating unit meeting the definition of “fossil fuel-fired” that is not a coal-fired, oil-fired, or IGCC electric utility steam generating unit and that burns natural gas for more than 10.0 percent of the average annual heat input during the previous calendar years after the compliance date for your facility in 63.9984 or for more than 15.0 percent of the annual heat input during any one of those calendar years. EGU owners and operators must estimate coal, oil, and natural gas usage for the first 3 calendar years after the applicable compliance date and they are solely responsible for assuring compliance with this final rule or other applicable standard based on their fuel usage projections.

APC’s application reflects that Units 1 and 2 are no longer burning coal. Furthermore, the facility is no longer equipped with coal handling or delivery systems. As such, these units are characterized as natural gas-fired electric generating units (EGUs) and are no longer required to operate the electrostatic precipitators (ESPs).

The auxiliary boiler is rated at 240 mmBtu/hr. This unit is subject to state regulations as well as the Federal New Source Performance Standards contained in 40 CFR Part 60, Subpart Db. Alabama Power previously accepted permit limits on fuel consumption by the auxiliary steam boiler to remain below annual capacity levels that would require emission monitoring for nitrogen oxides (per 40 CFR 60, Subpart Db) and to avoid review under the Prevention of Significant Deterioration (PSD) program. Additionally, this unit is subject to 40 CFR Part 63, Subpart DDDDD, “National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.”

Power Boiler Units 1 and 2 (common stack)

Emission Standards

Particulate Matter (PM):

0.12 lb/mmBtu

ADEM Admin Code r. 335-3-4-.03(1)

Opacity:

Shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period, and shall not discharge any 6-minute average opacity greater than 40%.

ADEM Admin. Code r. 335-3-4-.01(1)

Sulfur Dioxide (SO₂):

4.0 lb/mmBtu (Combined limit for both Units)

ADEM Admin. Code r. 335-3-5-.01(1)(b)

Units 1 and 2 are allocated SO₂ allowances under Phase II of the Acid Rain Program (ADEM Admin. Code r. 335-3-18-.01 and 40 CFR Part 73). These units are also subject to the provisions of the CSAPR as found in ADEM Admin. Code r. 335-3-5-.06 through 335-3-5-.36. APC shall hold sufficient allowances in Plant Gadsden's facility account to cover actual SO₂ emissions.

Nitrogen Oxide (NO_x):

Units 1 and 2 participate in a NO_x averaging plan pursuant to 40 CFR Part 76. The current plan is effective beginning January 1, 2017. Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plans shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7.

These units are also subject to the provisions of the CSAPR as found in ADEM Admin. Code r. 335-3-8-.07 through 335-3-8-.70. Under this rule, APC must hold sufficient allowances in Plant Gadsden's facility account to cover actual annual and seasonal NO_x emissions.

Expected Emissions

PM and Opacity:

Since these units burn natural gas only, PM emissions are expected to be minimal and no visible emissions are expected to be present during normal operation.

SO₂:

Since Units 1 and 2 burn natural gas only, actual SO₂ emissions are expected to be minimal, well below the applicable 4.0 lb/mmBtu standard.

NO_x:

Units 1 and 2 are required to monitor NO_x with a CEMS. CEMS data indicates that NO_x emissions from the boilers are below the emission limits established in the NO_x averaging plan.

Periodic monitoring

PM and Opacity:

Based on the low expected levels of emissions as compared to the applicable regulatory allowables, periodic monitoring for PM and opacity was deemed unnecessary.

SO₂:

SO₂ emissions from Units 1 and 2 will be monitored by the Acid Rain CEMS or any other approved method in 40 CFR 75. Data will be reported per the provisions of 40 CFR 75. No further periodic monitoring was deemed necessary.

NO_x:

NO_x emissions will be monitored by the Acid Rain Continuous Emissions Monitoring System (CEMS). Data will be reported per the provisions of 40 CFR 75. No further periodic monitoring was deemed necessary.

Compliance Assurance Monitoring

CAM applies to units/processes on a pollutant-by-pollutant basis if all three of the following criteria are met:

- The unit is subject to an emissions limit.
- The unit utilizes a control device to meet the applicable emissions limit.
- The unit's pre-controlled potential to emit the pollutant in question is greater than the major source threshold.

There are no pollutants emitted by units 1 and 2 that meet the above-listed criteria. Therefore, CAM does not apply to units 1 and 2.

Auxiliary Steam Boiler

The auxiliary steam boiler was originally permitted to burn natural gas and fuel oil. Permit limits (natural gas and fuel oil usage) were established that limited the emissions of the Auxiliary Steam Boiler such that it did not require Prevention of Significant Deterioration (PSD) review, specifically for NO_x. With this renewal, the facility has asserted that fuel oil will no longer be utilized in this unit and has requested to remove all references to fuel oil in the permit. However, with potential NO_x emissions reduced by eliminating fuel oil as a fuel source, the unit could use more natural gas and still maintain potential NO_x emissions below the PSD significance threshold of 40 TPY. Therefore, the previously permitted limit of 681 million standard cubic feet (scf) of natural gas usage in any consecutive 12-month period is being increased to 1000 million scf natural gas in any consecutive 12-month period. No emissions increases would be realized as a result of this change. The

Auxiliary Steam Boiler is subject to 40 CFR Part 60, Subpart Db, "Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units." This unit is also subject to 40 CFR Part 63, Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters."

Emissions Standards

PM:

$$E = 1.38H^{0.44}$$

Where E = Emissions (lb/mmBtu)
 H = Heat Input (mmBtu/hr)

ADEM Admin Code r. 335-3-4-.03(1)

Opacity:

Shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period, and shall not discharge any 6-minute average opacity greater than 40%.

ADEM Admin. Code r. 335-3-4-.01(1)

SO₂:

4.0 lb/mmBtu

ADEM Admin. Code r. 335-3-5-.01(1)(b)

NO_x:

0.07 lb/mmBtu [ADEM Admin. Code r. 335-3-14] *Anti-PSD*

Combust no more than 1000 million scf natural gas in any consecutive 12-month period.

ADEM Admin. Code r. 335-3-14 *Anti-PSD*

Expected Emissions

PM and Opacity:

Since this unit burns natural gas only, PM emissions are expected to be minimal and no visible emissions are expected to be present during normal operation.

SO₂:

Since the Auxiliary Steam Boiler burns natural gas only, actual SO₂ emissions are expected to be minimal, well below the applicable 4.0 lb/mmBtu standard.

NO_x:

The emission rate determined during the initial performance testing was 0.0589 lb/mmBtu while firing natural gas.

Periodic Monitoring

PM and Opacity:

Based on the low expected levels of emissions as compared to the applicable regulatory allowables, periodic monitoring for PM and opacity was deemed unnecessary.

SO₂:

Since the SO₂ emissions from this unit are expected to be minimal, no periodic monitoring was deemed necessary.

NO_x:

The source will control annual heat input at or less than a 10% capacity factor which makes emission monitoring unnecessary as set forth in 40 CFR Part 60.48b(g). Units 1 and 2 provide steam to a neighboring facility. The auxiliary boiler is expected to run infrequently because it provides a tertiary level of backup to assure fulfillment of the contractual steam obligations to the neighboring facility in the event Unit 1 or Unit 2 are offline.

Initial NO_x emissions testing indicated that the unit is able to operate with emissions well below its NO_x limits. Due to the past operations and the expected limited operation of the auxiliary boiler in the future, annual testing is not required of this unit and no periodic monitoring is deemed necessary. If the capacity factor exceeds 10%, the facility will be required to satisfy the emission monitoring requirements of 40 CFR 60.48b(g). Also, periodic emissions testing could be required if the capacity factor exceeds 10%.

Records of natural gas usage will be required to be kept in a form suitable for inspection in order to demonstrate compliance with the usage restrictions shown in the permit.

Compliance Assurance Monitoring

CAM applies to units/processes on a pollutant-by-pollutant basis if all three of the following criteria are met:

- The unit is subject to an emissions limit.
- The unit utilizes a control device to meet the applicable emissions limit.
- The unit's pre-controlled potential to emit the pollutant in question is greater than the major source threshold.

There are no pollutants emitted by the auxiliary steam boiler that meet the above-listed criteria. Therefore, CAM does not apply to this unit.

Stationary Internal Combustion Engines

There are six stationary internal combustion engines located at Plant Gadsden. The following four engines are utilized for emergency purposes only:

- Ash Pond Pump Engine (97.2 hp)
- Hydraulic Sump Pump Engine (115 hp)
- Fire Pump Engine (125 hp)
- Emergency Startup Generator (536 hp)

Additionally, the facility utilizes two non-emergency diesel-fired engines (290 hp):

- Air Compressor Engine (290 hp)
- Low Volume Waste Pump Engine (80.5 hp)

Each engine is subject to 40 CFR 63, Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines." Additionally, the Low Volume Waste Pump Engine, Ash Pond Pump Engine, Hydraulic Sump Pump Engine, Fire Pump Engine, and Air Compressor Engine are subject to 40 CFR Part 60, Subpart IIII, "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines." The monitoring associated with these rules is deemed sufficient for any necessary periodic monitoring under the Title V permitting program.

Compliance Assurance Monitoring

CAM applies to units/processes on a pollutant-by-pollutant basis if all three of the following criteria are met:

- The unit is subject to an emissions limit.
- The unit utilizes a control device to meet the applicable emissions limit.
- The unit's pre-controlled potential to emit the pollutant in question is greater than the major source threshold.

There are no pollutants emitted by any of the RICE units that meet the above-listed criteria. Therefore, CAM does not apply to these units.

Based on the above analysis and pending the resolution of any comments received during the 30-day public comment period and 45 day EPA review, I recommend issuing the attached renewal MSOP for Alabama Power Company's Plant Gadsden.

Amy E. Graham
Industrial Minerals Sections
Energy Branch
Air Division

Date



MAJOR SOURCE OPERATING PERMIT

Permitee: **Alabama Power Company**
Facility Name: **Gadsden Steam Electric Generating Plant**
Facility No.: 307-0002
Location: Gadsden, Etowah County, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code 1975, §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code 1975, §§22-22A-1 to 22-22A-15, (2006 Rplc. Vol. and 2007 Cum. Supp.) and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: **DRAFT**
Expiration Date: **XXXX**

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ACID RAIN PERMIT	ATTACHED

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p>	<p>Rule 335-3-16-.02(6)</p>
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	<p>Rule 335-3-16-.12(2)</p>
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivisions, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	<p>Rule 335-3-16-.05(e)</p>
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>

General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p> <p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p> <p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p> <p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p> <p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p> <p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of</p>	<p>Rule 335-3-16-.05(h)</p> <p>Rule 335-3-16-.05(i)</p> <p>Rule 335-3-16-.05(j)</p> <p>Rule 335-3-16-.05(k)</p> <p>Rule 335-3-16-.07(a)</p> <p>Rule 335-3-16-.07(b)</p>

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<p>Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>Rule 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted yearly by August 31 covering the period from July 1 through June 30 unless more frequent periods are specified according to the specific rule governing the source or required by the Department.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; 	<p>Rule 335-3-16-.07(e)</p>

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<p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether the method(s) or other means used to assure compliance provided continuous or intermittent data;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to :</p> <p style="padding-left: 40px;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="padding-left: 80px;">and to:</p> <p style="padding-left: 40px;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) Unless otherwise specified in the unit-specific provisos of this permit, in the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; 	<p>Rule 335-3-1-.07(1),(2)</p>

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<p>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</p> <p>(b) Unless otherwise specified in the unit-specific provisos of this permit, in the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>Unless otherwise specified in the unit-specific provisos of this permit, all air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), <u>Code of Alabama 1975</u>, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <p>(a) Reasonable precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow</p>	<p>Rule 335-3-4-.02</p>

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<p>the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; or</p> <p>(5) By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface.</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <p>(1) The date, place, and time of all sampling or measurements;</p> <p>(2) The date analyses were performed;</p> <p>(3) The company or entity that performed the analyses;</p> <p>(4) The analytical techniques or methods used;</p> <p>(5) The results of all analyses; and</p> <p>(6) The operating conditions that existed at the time of sampling or measurement.</p> <p>(b) Retention of records of all required monitoring data and support information of the source for a period</p>	<p>Rule 335-3-16-.05(c)(2)</p>

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<p>of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.</p>	
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p> <p>(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.</p>	<p>Rule 335-3-16-.05(c)(3)</p>
<p>22. <u>Emission Testing Requirements</u></p> <p>(a) Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>(b) The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>(c) To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <ol style="list-style-type: none"> 1. The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the 	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-.04(1)</p> <p>Rule 335-3-1-.04</p>

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<p>names of the persons and/or testing company that will conduct the tests.</p> <p>2. A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures requires probe cleaning).</p> <p>3. A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity.</p> <p>4. A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.</p> <p>(d) A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>(e) All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>Rule 335-3-1-.04</p>
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code r. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and</p>	<p>Rule 335-3-16-.05(a)</p>

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<p>certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <ul style="list-style-type: none"> (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: <ul style="list-style-type: none"> (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or, (2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. 	<p>40 CFR Part 68</p>
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which</p>	<p>Rule 335-3-1-.10</p>

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<p>would otherwise violate the Division 3 rules and regulations.</p>	
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>Rule 335-3-4-.01(1)</p>
<p>30. <u>Fuel-Burning Equipment</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.03.</p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Rule 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Rule 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p>33. <u>Emissions Inventory Reporting Requirements</u></p> <p>In order to meet the statewide emissions inventory reporting requirements under 40 CFR 51, Appendix A, the permittee shall comply with the reporting requirements under ADEM Admin. Code r. 335-3-1-.15.</p>	<p>Rule 335-3-1-.15</p>

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<p>34. <u>Permit Shield</u></p> <p>(a) A permit shield exists under this operating permit in accordance with ADEM Admin. Code 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in this operating permit.</p> <p>(b) Nothing in this permit shall alter or affect the following:</p> <ol style="list-style-type: none"> (1) The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section; (2) The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act; or (4) The ability of EPA to obtain information from a source pursuant to Section 114 of the Act. 	<p>Rule 335-3-16-.10</p>

Summary Page for No. 1 Power Boiler and No. 2 Power Boiler

Permitted Operating Schedule: 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit*	Regulation
001	Combined Stack for Nos. 1 and 2 Power Boilers	PM	0.12 lb/mmBtu	Rule 335-3-4-.03(1)
		SO ₂	4.0 lb/mmBtu	Rule 335-3-5-.01
		Opacity	20%	Rule 335-3-4-.01(1))
		NO _x	See NO _x Avg. Plan	40 CFR 76
		VOC	N/A	N/A
		CO	N/A	N/A
		HAPs	N/A	N/A

*See No. 1 Power Boiler and No. 2 Power Boiler Emissions Standards section of the permit for a complete description of emission limitations.

Provisos for No. 1 Power Boiler and No. 2 Power Boiler

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. These units are subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits."	Rule 335-3-16
2. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions are incorporated as enforceable conditions of this permit.	Rule 335-3-16-.05(a)(2)
3. These units are not subject to the Mercury and Air Toxics Standards (MATS) found in ADEM Admin. Code r. 335-3-11-.06(124), provided they continue to meet the definition of natural gas-fired electric utility steam generating units.	Rule 335-3-11-.06(124) 40 CFR 63.9983(c) & 63.10042
4. These sources are subject to the applicable provisions of the Cross-State Air Pollution Rule found in ADEM Admin. Code r. 335-3-5-.06 through 335-3-5-.36 and ADEM Admin. Code r. 335-3-8-.07 through 335-3-8-.70.	Rules 335-3-5-.06 through 335-3-5-.36 and Rules 335-3-8-.07 through 335-3-8-.70
<u>Emission Standards</u>	
1. Emissions exceeding any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder are prohibited.	Rule 335-3-16-.05(d)
2. Units 1 and 2 shall burn only natural gas.	Rule 335-3-14-.01 40 CFR 63.10042
3. The particulate matter emissions rate shall not exceed 0.12 lb/mmBtu.	Rule 335-3-4-.03
4. The sulfur dioxide emission rate shall not exceed 4.0 lb/mmBtu.	Rule 335-3-5-.01
5. The permittee shall not discharge into the atmosphere from the common stack utilized by Units 1 and 2, more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%.	Rule 335-3-4-.01(1)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Compliance with the particulate matter emission standard shall be determined by EPA Reference Method 5 or 17, as found in Appendix A of 40 CFR 60.	Rule 335-3-1-.05

Federally Enforceable Provisos	Regulations
2. Compliance with the sulfur dioxide emission standard shall be determined by EPA Reference Method 6, as found in Appendix A of 40 CFR 60.	Rule 335-3-1-.05
3. Compliance with the opacity standard shall be determined by EPA Reference Method 9 as found in Appendix A of 40 CFR 60.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. The installed continuous sulfur dioxide emissions monitor or other approved continuous monitoring method under 40 CFR 75 will be operated, maintained, and certified using 40 CFR 75 procedures. If a CEMS is used, data from this monitor will also be used to provide an indication of the sulfur dioxide emissions from these units, using lb/mmBtu computed on a 24-hour rolling average.	40 CFR 75 335-3-16-.05(c)
2. The installed continuous nitrogen oxides emissions monitor will be operated, maintained, and certified using 40 CFR Part 75 procedures.	40 CFR 75
3. The installed continuous carbon dioxide emissions monitor will be operated, maintained, and certified using 40 CFR Part 75 procedures.	40 CFR 75
<u>Recordkeeping and Reporting Requirements</u>	
1. The facility shall comply with the recordkeeping and reporting requirements of Rules 335-3-5-.31, 335-3-8-.33, 335-3-8-.37, and 335-3-8-.65.	Rule 335-3-5-.31 Rule 335-3-8-.33 Rule 335-3-8-.37 Rule 335-3-8-.65
2. By January 31 of each year, the permittee shall submit to the Department its determination of the operating load that constitutes normal minimum load and normal full load for each of the units.	Rule 335-3-16-.05(c)
3. The permittee shall comply with the recordkeeping and reporting requirements of the Mandatory Greenhouse Gas Reporting Rule in 40 CFR 98.	40 CFR 98
<u>Acid Rain Requirements</u>	
1. These units are subject to the Acid Rain rules contained in 40 CFR Parts 72, 75, and 76. Applicable Acid Rain permits are contained in the Acid Rain portion of this Operating Permit.	Rule 335-3-18 and 40 CFR Parts 72, 75, and 76

Federally Enforceable Provisos**Regulations**CSAPR Requirements

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|---|---------------------------------------|
| 1. These units are subject to the applicable provisions of Cross-State Air Pollution Rule (CSAPR) to include all applicable provisions of the SO ₂ Group 2 Trading Program requirements. | Rules 335-3-5-.06 through 335-3-5-.36 |
| 2. These units are subject to the applicable provisions of the CSAPR to include all applicable provisions of the NO _x Annual and Seasonal Trading Program requirements. | Rules 335-3-8-.07 through 335-3-8-.70 |

Summary Page for No. 3 Steam Boiler (240 mmBtu/hr)

Permitted Operating Schedule: 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit*	Regulation
002	No. 3 Steam Boiler	PM	$E = 1.38H^{-0.44}$	Rule 335-3-4-.03(1)
		SO ₂	4.0 lb/mmBtu	Rule 335-3-5-.01
		NO _x	0.07 lb/mmBtu	Rule 335-3-14-.04
		VOC	N/A	N/A
		CO	N/A	N/A
		Opacity	20%	Rule 335-3-4-.01(1)

*See No. 3 Steam Boiler (240 mmBtu/hr) Emission Standards section of the permit for a complete description of emission limitations.

Provisos for No. 3 Steam Boiler (240 mmBtu/hr)

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This Unit is subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits."	Rule 335-3-16
2. This unit is subject to 40 CFR Part 60, Subpart Db, "Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units."	Rule 335-3-10-.02(2)(b) 40 CFR Part 60 Subpart Db
3. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code r. 335-3-14-.04 "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]."	Rule 335-3-14-.04
4. This unit is subject to 40 CFR Part 63, Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters."	Rule 335-3-11-.06(107) 40 CFR Part 63 Subpart DDDDD
<u>Emission Standards</u>	
1. This unit shall combust only natural gas.	Rule 335-3-14-.04 Anti-PSD
2. The particulate matter emissions rate shall not exceed that which is established by the following equation: $E = 1.38H^{0.44}$ <p>Where E = Emissions (lb/mmBtu) H = Heat Input (mmBtu/hr)</p>	Rule 335-3-4-.03(1)
3. The sulfur dioxide emission rate shall not exceed 4.0 lb/mmBtu.	Rule 335-3-5-.01
4. The nitrogen oxides emission rate shall not exceed 0.07 lb/mmBtu.	Rule 335-3-14-.04 Anti-PSD
5. This unit shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall this unit discharge a 6-minute average opacity greater than 40%.	Rule 335-3-4-.01(1)
6. For PSD purposes, the boiler shall not combust more than 1000 million standard cubic feet of natural gas in any consecutive 12-month period.	Rule 335-3-14-.04 Anti-PSD
7. The permittee must comply with the applicable work practice standards of 40 CFR 63, Subpart DDDDD, to include a tune-up of the boiler once every 5 years. Each subsequent tune-up must be conducted no more than 61 months after the previous tune-up.	40 CFR 63.7540(a)(12)

Federally Enforceable Provisos**Regulations**Compliance and Performance Test Methods and Procedures

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| 1. Compliance with the particulate emissions standard shall be determined by EPA Reference Method 5 or 17, as found in Appendix A of 40 CFR 60. | Rule 335-3-1-.05 |
| 2. Compliance with the sulfur dioxide emission standard shall be determined by EPA Reference Method 6, as found in Appendix A of 40 CFR 60. | Rule 335-3-1-.05 |
| 3. Compliance with the nitrogen oxide emission standard shall be determined by Method 7 or 7E, as found in Appendix A of 40 CFR 60. | Rule 335-3-1-.05 |
| 4. Compliance with the opacity standard shall be determined by EPA Reference Method 9, as found in Appendix A of 40 CFR 60. | Rule 335-3-1-.05 |

Emission Monitoring

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| 1. Nitrogen Oxides emissions will be monitored in accordance with 40 CFR 60.48b if the boiler exceeds a heat input of 210,240 mmBtu during any calendar year. | 40 CFR 60.48b(g) |
| 2. The permittee shall comply with the applicable emission monitoring found in 40 CFR Part 63, Subpart DDDDD. | 40 CFR Part 63
Subpart DDDDD |

Recordkeeping and Reporting Requirements

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| 1. Records that document monthly and rolling 12-month fuel usage in standard cubic feet will be maintained in a form suitable for inspection, be made available upon request, and maintained for a period of five years. | Rule 335-3-1-.04
40 CFR 60.4 |
| 2. The permittee shall comply with the recordkeeping and reporting requirements of the Mandatory Greenhouse Gas Reporting Rule in 40 CFR 98. | 40 CFR 98 |
| 3. The permittee shall comply with the applicable recordkeeping requirements found in 40 CFR 63.7555. | 40 CFR 63.7555 |
| 4. The permittee shall submit a compliance report once every 5 years in accordance with 40 CFR 63.7550(b). | 40 CFR 63.7550(b) |

Summary Page for Stationary Internal Combustion Engines

Permitted Operating Schedule: 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
005	Hydraulic Sump Pump Engine (115 hp)	Opacity	Shall not exceed 20% based on 6-minute average, except one 6-minute period in every 60-minute period it shall not exceed 40%	335-3-4-.01
006	Fire Pump Engine (125 hp)	Opacity	Shall not exceed 20% based on 6-minute average, except one 6-minute period in every 60-minute period it shall not exceed 40%	335-3-4-.01
007	Emergency Startup Generator (536 hp)	Opacity	Shall not exceed 20% based on 6-minute average, except one 6-minute period in every 60-minute period it shall not exceed 40%	335-3-4-.01
003	Low Volume Waste Pump (80.5 hp)	Opacity	Shall not exceed 20% based on 6-minute average, except one 6-minute period in every 60-minute period it shall not exceed 40%	335-3-4-.01
008	Air Compressor Engine (290 hp)	Opacity	Shall not exceed 20% based on 6-minute average, except one 6-minute period in every 60-minute period it shall not exceed 40%	335-3-4-.01

Provisos for the Hydraulic Sump Pump

Federally Enforceable Provisos	Regulations
<p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits." 2. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-10-.02(87), "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Subpart III)" and 335-3-11-.06(103), "National Emissions Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)." 	<p>Rule 335-3-16</p> <p>Rule 335-3-10-.02(87) Rule 335-3-11-.06(103)</p>
<p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. As an emergency stationary RICE, this unit is subject to the emission standards specified in 40 CFR 60.4205(b). 2. This unit must be operated and maintained as specified in 40 CFR 60.4211(a). 3. As an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for more than 50 hours per year, as described below, is prohibited. <ol style="list-style-type: none"> (a) There is no limit on the use of emergency stationary RICE in emergency situations. (b) The emergency stationary RICE may be operated for any combination of the purposes specified in 40 CFR 60.4211(f)(2)(i) and 60.4211(f)(3) for a maximum of 100 hours per calendar year. 	<p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4205(b))</p> <p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(a))</p> <p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(f))</p>
<p><u>Compliance and Performance Test Methods and Procedures</u></p> <ol style="list-style-type: none"> 1. The permittee shall comply with the emission standards by purchasing an engine certified by the manufacturer to the emission standards in 40 CFR 60.4202(a)(2) as applicable for the same engine class and maximum engine power. 	<p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(c))</p>
<p><u>Emission Monitoring</u></p> <ol style="list-style-type: none"> 1. A non-resettable hour meter must be installed prior to startup of the emergency engine. 	<p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4209(a))</p>

Federally Enforceable Provisos**Regulations****Recordkeeping and Reporting Requirements**

1. The permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. You must also record the time of operation of the engine and the reason the engine was in operation during that time.

Rule 335-3-10-.02(87)
(incorporating 40 CFR
60.4214(b))

Alternate Operating Scenario

1. If this unit is operated as non-emergency stationary RICE, the permittee shall notify ADEM and comply with the applicable provisions of ADEM Admin. Code r. 335-3-10-.02(87), "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Subpart III)" and 335-3-11-.06(103), "National Emissions Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)" notwithstanding other provisions of this permit to the contrary.

Rule 335-3-10-.02(87)
(incorporating 40 CFR
Part 60 Subpart III)

Provisos for the Fire Pump Engine

Federally Enforceable Provisos	Regulations
<u>Applicability</u> <ol style="list-style-type: none"> 1. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits." 2. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-10-.02(87), "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Subpart III)" and 335-3-11-.06(103), "National Emissions Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)." 	<p>Rule 335-3-16</p> <p>Rule 335-3-10-.02(87) Rule 335-3-11-.06(103)</p>
<u>Emission Standards</u> <ol style="list-style-type: none"> 1. This unit is subject to the emission standards specified in 40 CFR 60.4205(c). 2. This unit must be operated and maintained as specified in 40 CFR 60.4211(a). 3. As an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for more than 50 hours per year, as described below, is prohibited. <ol style="list-style-type: none"> (c) There is no limit on the use of emergency stationary RICE in emergency situations. (d) The emergency stationary RICE may be operated for any combination of the purposes specified in 40 CFR 60.4211(f)(2)(i) and 60.4211(f)(3) for a maximum of 100 hours per calendar year. 	<p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4205(c))</p> <p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(a))</p> <p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(f))</p>
<u>Compliance and Performance Test Methods and Procedures</u> <ol style="list-style-type: none"> 1. The permittee shall comply with the emission standards by purchasing an engine certified by the manufacturer to the emission standards in 40 CFR 60.4202(d), as applicable, for the same model year and maximum engine power. 	<p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(c))</p>
<u>Emission Monitoring</u> <ol style="list-style-type: none"> 1. A non-resettable hour meter must be installed prior to startup of the emergency engine. 	<p>Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4209(a))</p>

Federally Enforceable Provisos**Regulations****Recordkeeping and Reporting Requirements**

1. The permittee shall keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee must also record the time of operation of the engine and the reason the engine was in operation during that time.

Rule 335-3-10-.02(87)
(incorporating 40 CFR
60.4214(b))

Alternate Operating Scenario

1. If this unit is operated as non-emergency stationary RICE, the permittee shall notify ADEM and comply with the applicable provisions of ADEM Admin. Code r. 335-3-10-.02(87), "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Subpart III)" and 335-3-11-.06(103), "National Emissions Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)" notwithstanding other provisions of this permit to the contrary.

Rule 335-3-10-.02(87)
(incorporating 40 CFR
Part 60 Subpart III)

Provisos for the Emergency Startup Generator

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits."	Rule 335-3-16
2. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-11-.06(103), "National Emission Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)."	Rule 335-3-11-.06(103)
<u>Emission Standards</u>	
1. As an emergency stationary RICE, this unit is subject to no additional source specific emissions standards other than those listed in the General Provisos.	Rule 335-3-11-.06(103) (incorporating 40 CFR 63.6600(c))
2. As an emergency stationary RICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for more than 50 hours per year, as described below, is prohibited.	Rule 335-3-11-.06(103) (incorporating 40 CFR 63.6640 (f))
(a) There is no time limit on the use of emergency stationary RICE in emergency situations.	
(b) The emergency stationary RICE may be operated for any combination of the purposes specified in 40 CFR 63.6640(f)(2)(i) and 63.6640(f)(3) for a maximum of 100 hours per calendar year.	
<u>Compliance and Performance Test Methods and Procedures</u>	
1. There are no source specific compliance and performance test methods associated with this unit.	Rule 335-3-11-.06(103)
<u>Emission Monitoring</u>	
1. There are no source specific emissions monitoring provisions for this unit.	Rule 335-3-11-.06(103)
<u>Recordkeeping and Reporting Requirements</u>	
1. There are no source specific recordkeeping and reporting requirements for this unit.	Rule 335-3-11-.06(103)

Federally Enforceable Provisos**Regulations****Alternate Operating Scenario**

1. If this unit is operated as non-emergency stationary RICE, the permittee shall notify ADEM and comply with the applicable provisions of ADEM Admin. Code r. 335-3-11-.06(103), "National Emissions Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)" notwithstanding other provisions of this permit to the contrary.

Rule 335-3-11-.06(103)
(incorporating 40 CFR
63 Subpart ZZZZ)

DRAFT

Provisos for the Low Volume Waste Pump Engine

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits."	Rule 335-3-16
2. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-10-.02(87), "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Subpart III)" and 335-3-11-.06(103), "National Emissions Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)."	Rule 335-3-10-.02(87) Rule 335-3-11-.06(103)
<u>Emission Standards</u>	
1. This unit is subject to the emission standards specified in 40 CFR 60.4204(b).	Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4204(b))
2. This unit must be operated and maintained as specified in 40 CFR 60.4211(a).	Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(a))
<u>Compliance and Performance Test Methods and Procedures</u>	
1. The permittee shall comply with the emission standards by purchasing an engine certified by the manufacturer to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power.	Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(c))
<u>Emission Monitoring</u>	
1. There are no specific emission monitoring requirements for this unit.	Rule 335-3-10-.02(87)
<u>Recordkeeping and Reporting Requirements</u>	
1. The permittee shall comply with the recordkeeping and reporting requirements of the Mandatory Greenhouse Gas Reporting Rule in 40 CFR 98.	40 CFR 98

Provisos for the Air Compressor Engine

Federally Enforceable Provisos	Regulations
<u>Applicability</u> 1. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-16, "Major Source Operating Permits." 2. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-10-.02(87), "Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (Subpart III)" and 335-3-11-.06(103), "National Emissions Standards for Hazardous Air Pollutant Emissions from Stationary Reciprocating Internal Combustion Engines (Subpart ZZZZ)." 	Rule 335-3-16 Rule 335-3-10-.02(87) Rule 335-3-11-.06(103)
<u>Emission Standards</u> 1. This unit is subject to the emission standards specified in 40 CFR 60.4204(b). 2. This unit must be operated and maintained as specified in 40 CFR 60.4211(a). 	Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4204(b)) Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(a))
<u>Compliance and Performance Test Methods and Procedures</u> 1. The permittee shall comply with the emission standards by purchasing an engine certified by the manufacturer to the emission standards in 40 CFR 60.4201(a), as applicable, for the same model year and maximum engine power. 	Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4211(c))
<u>Emission Monitoring</u> 1. The diesel particulate filter shall be equipped with a backpressure monitor that notifies the permittee when the high backpressure limit of the engine is approached. 	Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4209(b))
<u>Recordkeeping and Reporting Requirements</u> 1. The permittee shall maintain records of any corrective action taken when the high backpressure limit of the engine has been approached. 2. The permittee shall comply with the recordkeeping and reporting requirements of the Mandatory Greenhouse Gas Reporting Rule in 40 CFR 98. 	Rule 335-3-10-.02(87) (incorporating 40 CFR 60.4214(c)) 40 CFR 98

Phase II Acid Rain Permit

Issued by: Alabama Department of Environmental Management
Issued to: Alabama Power Company - Gadsden
Operated by: Alabama Power Company
ORIS code: 0007
Effective: DRAFT

Acid Rain Permit Contents

- 1) Statement of Basis.
- 2) SO₂ allowances allocated under this permit and NO_x requirements for each affected unit.
- 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
- 4) The Phase II Permit Application, NO_x Compliance Plan, and NO_x Averaging Plan submitted for this source, as corrected by the Alabama Department of Environmental Management. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the Phase II Permit Application, NO_x Compliance Plan, and NO_x Averaging Plan.
- 5) Summary of Previous Actions and Current Action.

1) Statement of Basis:

Statutory and Regulatory Authorities: In accordance with the Code of Alabama 1975, §§ 22-22A-4, 22-22A-6, 22-22A-8, 22-28-14 and Titles IV and V of the Clean Air Act, the Alabama Department of Environmental Management issues this permit pursuant to ADEM Admin. Codes r. 335-3-16 and 335-3-18.

2) SO₂ Allowance Allocations and NO_x Requirements for each affected unit:

		2017	2018	2019	2020	2021
Unit 1	SO ₂ allowances, under Tables 2, 3, or 4 of 40 CFR part 73. [tons]	1961 ¹	1961 ¹	1961 ¹	1961 ¹	1961 ¹
	NO _x limit [lb/mmBtu]	□2	□2	□2	□2	□2

		2017	2018	2019	2020	2021
Unit 2	SO ₂ allowances, under Tables 2, 3, or 4 of 40 CFR part 73. [tons]	2027 ¹	2027 ¹	2027 ¹	2027 ¹	2027 ¹
	NO _x limit [lb/mmBtu]	□2	□2	□2	□2	□2

¹ The number of allowances allocated to Phase II affected units by U.S. EPA may change under 40 CFR Part 73. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitates a revision to SO₂ allowance allocations identified in this permit [See 40 CFR 72.84].

² Pursuant to 40 CFR 76.11, the Alabama Department of Environmental Management approves five (5) NO_x emissions averaging plans for Units 1 and 2. Each plan is effective for one calendar year for the years 2013, 2014, 2015, 2016 and 2017. Under each plan, Unit 1's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.75 lb/mmBtu, and Unit 2's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.75 lb/mmBtu. In addition, Unit 1 shall not have an annual heat input greater than 2,493,711 mmBtu, and Unit 2 shall not have an annual heat input greater than 2,994,848 mmBtu.

Under the plans, the actual Btu-weighted annual average NO_x emission rate for the units in the plans shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plans, then each unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

In accordance with 40 CFR 72.40(b)(2), approval of the averaging plans shall be final only when the Georgia Department of Natural Resources, Environmental Protection Division; the Florida Department of Environmental Protection, the Mississippi Department of Environmental Quality, and the Jefferson County (AL) Department of Health have also approved the averaging plans.

In addition to the described NO_x compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_x compliance plan and requirements covering excess emissions.

3) Comments, Notes and Justifications: None.

4) Phase II Permit Application, Phase II NO_x Averaging Plan, Phase II NO_x Compliance Plan: Attached.

5) Summary of Previous Actions and Current Action:

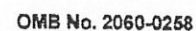
ACTION	DATE
1. Draft permit prepared and submitted for public review and comment.	October 1, 1997
2. Permit finalized and issued.	December 17, 1997
3. Permit revised to add NO _x emissions compliance plans for Units 1 and 2 and issued for public	November 28, 1998

comment.

- | | |
|---|-------------------|
| 4. Draft permit prepared and submitted for public review and comment. | December 1, 2004 |
| 5. Permit finalized and issued. | January 1, 2005 |
| 6. Draft permit prepared and submitted for public review and comment. | December 22, 2016 |
| 7. Permit finalized and issued. | DRAFT |

Ronald W. Gore, Chief
Air Division

Date



This submission is: ☐ New ☐ Revised ☒ For Acid Rain permit renewal

Identify the facility name,
State, and plant (ORIS)
code.

Gadsden Facility (Source) Name	AL State	0007 Plant Code
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Enter the unit ID#
for every affected
unit at the affected
source in column "a."

[illegible]

Facility (Source) Name (from STEP 1)	Gadsden
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Permit Requirements

STEP 3

Read the standard requirements.

- (1) The designated representative of each affected source and each affected unit at the source shall:
 - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
 - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
 - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
 - (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
 - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Facility (Source) Name (from STEP 1) Gadsden

Sulfur Dioxide Requirements, Cont'd.**STEP 3, Cont'd.**

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:

(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and

(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

Facility (Source) Name (from STEP 1) Gadsden
--

Effect on Other Authorities, Cont'd.**STEP 3, Cont'd.**

to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a source can hold; *provided*, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification**STEP 4**

Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Anthony J. Marino	
Signature <i>Anthony J. Marino</i>	Date <i>7/24/2008</i>



Phase II NO_x Compliance Plan

Page 1 of 2

For more information, see instructions and refer to 40 CFR 76.9

This submission is: ☐ New ☐ Revised

STEP 1
Indicate plant name,
State, and ORIS code
from NADB, if applicable

Plant Name	Gadsden	State	AL	ORIS Code	0007
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STEP 2

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

ID#	Type	ID#	Type	ID#	Type	ID#	Type	ID#	Type
1	T	2	T						

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)

☐☐☐☐☐☐

(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)

☐☐☐☐☐☐

(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)

☐☐☐☐☐☐

(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)

☐☐☐☐☐☐

(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)

☐☐☐☐☐☐

(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)

☐☐☐☐☐☐

(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)

☐☐☐☐☐☐

(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)

☐☐☐☐☐☐

(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)

☐☐☐☐☐☐

(j) NO_x Averaging Plan (include NO_x Averaging form)

☒☒☐☐☐☐

(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)

☐☐☐☐☐☐

(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)

☒

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☒☐☐☐☐

Plant Name (from Step 1)	Gadsden
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NO_x Compliance - Page 2

Page 2 of 2

STEP 2, cont'd.

ID#	ID#	ID#	ID#	ID#	ID#
Type	Type	Type	Type	Type	Type

(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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(n) AEL (Include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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(p) Repowering extension plan approved or under review

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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STEP 3

Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	Anthony J. Marino	
Signature	<i>Anthony J. Marino</i>	Date 7/24/2008



Acid Rain NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11 NO_x Averaging - Page 1

This submission is: ☐ New ☒ Revised

Page 1 of 4

STEP 1

Identify the units participating in this averaging plan by plant name, State, and unit ID. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	Unit ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
See Page 3.					

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

$$\frac{\sum_{i=1}^n (R_{Li} \times HI_i)}{\sum_{i=1}^n HI_i}$$

0.44

Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

$$\frac{\sum_{i=1}^n [R_{Li} \times HI_i]}{\sum_{i=1}^n HI_i}$$

0.44

≤

≤

Where,

- R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;
 R_{li} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;
 HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;
 n = Number of units in the averaging plan

STEP 3

Identify the first calendar year in which this plan will apply.

January 1, 2017

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
- (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
- (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Larry S. Monroe

Signature

Larry S. Monroe

Date

6-22-16

Southern Company Averaging Plan Participating Plants	
Plant Name (from Step 1)	as Listed in Step 1.

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID #	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Barry	AL	1	0.40	0.50	150,000
Barry	AL	2	0.40	0.50	150,000
Barry	AL	4	0.40	0.45	2,935,392
Barry	AL	5	0.40	0.45	29,234,375
Bowen	GA	1	0.45	0.42	37,184,471
Bowen	GA	2	0.45	0.43	33,735,559
Bowen	GA	3	0.45	0.43	39,424,486
Bowen	GA	4	0.45	0.43	55,660,598
Crist	FL	4	0.45	0.52	311,012
Crist	FL	5	0.45	0.60	300,422
Crist	FL	6	0.50	0.45	6,067,693
Crist	FL	7	0.50	0.45	25,775,190
Daniel	MS	1	0.45	0.33	14,416,070
Daniel	MS	2	0.45	0.33	16,472,125
Gadsden	AL	1	0.45	0.60	1,042,626
Gadsden	AL	2	0.45	0.60	841,608
Gaston	AL	1	0.50	0.52	346,132
Gaston	AL	2	0.50	0.52	417,022
Gaston	AL	3	0.50	0.52	546,930
Gaston	AL	4	0.50	0.52	270,558
Gaston	AL	5	0.45	0.48	33,297,386
Gorgas	AL	8	0.40	0.52	6,688,479
Gorgas	AL	9	0.40	0.52	5,635,034
Gorgas	AL	10	0.40	0.52	35,028,848
Greene Co	AL	1	0.68	0.60	1,741,402

Southern Company Averaging Plan Participating Plants	
Plant Name (from Step 1)	as Listed in Step 1.

(a) (b) (c)
Emission Alt. Contemp.
Limitation Emission Limitation

Plant Name	State	ID #	Emission Limitation	Alt. Contemp. Emission Limitation	Annual Heat Input Limit
Greene Co	AL	2	0.46	0.60	1,651,367
Hammond	GA	1	0.50	0.83	359,581
Hammond	GA	2	0.50	0.83	376,444
Hammond	GA	3	0.50	0.83	227,315
Hammond	GA	4	0.50	0.45	3,588,035
McIntosh	GA	1	0.50	0.86	77,555
Miller	AL	1	0.46	0.38	64,380,271
Miller	AL	2	0.46	0.38	62,064,460
Miller	AL	3	0.46	0.38	65,649,432
Miller	AL	4	0.46	0.38	65,726,718
Mitchell*	GA	3	0.45	0.62	0
Scherer	GA	1	0.40	0.50	51,872,189
Scherer	GA	2	0.40	0.50	40,460,144
Scherer	GA	3	0.45	0.50	48,799,518
Scherer	GA	4	0.40	0.50	48,799,518
Wansley	GA	1	0.45	0.41	35,570,651
Wansley	GA	2	0.45	0.42	30,211,340
Watson	MS	4	0.50	0.60	165,072
Watson	MS	5	0.50	0.60	488,052
Yates	GA	6	0.45	0.33	1,554,707
Yates	GA	7	0.45	0.30	412,079

STEP 1

Continue the identification of units from Step 1, page 1, here.

* Plant Mitchell Unit 3 ceased operation on April 15, 2015, and is included in Georgia Power's 2016 Integrated Resource Plan (IRP) to request decertification. The Georgia Public Service Commission is expected to vote on the IRP request in mid-2016.